

Amendments to the Specification:

Please insert new paragraph [0038] after current paragraph [0037] with the following amended paragraph:

[0038] According to various embodiments, **FIG. 18** illustrates a cross-sectional view of a cap with a Fresnel lens integrated into the top surface of the cap.

Please insert amended current paragraph [0038] with the following amended paragraph:

[0038] **[0039]** According to various embodiments, **FIG. 19** illustrates a cross-sectional view of a sample well with an elongate portion leaving an air gap with sample.

Please replace current paragraph [0082] with the following amended paragraph:

[0082] According to various embodiments, as shown in **FIG. 11B**, the microcard **250** includes a first member **262** and a second member **264**. In the embodiment shown in **FIG. 11B**, the first member **262** includes all of the features of the flow paths **272** and sample chambers **266** in a polymeric sheet. A plurality of sample chambers **266** and flow paths **272** are defined between the first and second member.

Please replace current paragraph [0083] with the following amended paragraph:

[0083] According to various embodiments, the first member **262** can be made of any suitable material such as a polymer. One such suitable polymer is polypropylene. Other suitable polymers include, for example, polyester, polycarbonate, and polyethylene as described above. It can be desirable to make the first member **262** out of a PCR compatible material. The second member **264** is provided as a substantially flat plate that is attached to the first member **262** to complete the formation of the features of the sample chambers and flow paths **272**. The second member **264** can be made out of any suitable material such as a metal foil. Alternatively, the second member could be made out of any of the polymers suitable for use in the first member. The metal foil is particularly suitable because it enhances the heat transfer to the sample chambers from a sample block (not shown) that is typically positioned under the microcard. The foil backing promotes the heating of the sample **S** to be tested to a desired temperature. The first and second members are typically adhered to each other in order to create the requisite seal for the sample chambers.